ABSTRACT

A method for implementing distribution of link state information in an optical network includes: determining information of each link protection attribute section included in a Traffic Engineering (TE) link; carrying the information of each link protection attribute section in a customized TLV, respectively; distributing the TLV in the optical network via Traffic Engineering Link State Advertisement (TE LSA). With this invention, all the link state information such as multiple kinds of protection types included in one TE link can be carried in the customized TLV to distribute. Therefore, in the implementation of this invention, one TE link corresponding to one optical fiber can be configured with multiple kinds of protection types.